

Docket No.: 33148.00585.US01  
(PATENT)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

---

In re Patent Application of:  
Mikhail Laksin et al.

Customer No.: 13772

Application No.: 10/586,098

Confirmation No.: 1736

Filed: January 14, 2005

Art Unit: 2853

For: HYBRID ENERGY CURABLE SOLVENT  
BASED LIQUID PRINTING INKS

---

Examiner: M.S. Shah

**REQUEST FOR CORRECTED FILING RECEIPT**

Filing Receipt Corrections  
Office of Initial Patent Examination  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Applicants hereby request that a corrected Filing Receipt be issued in the above-identified patent application. The official Filing Receipt received by Applicants omits the US Provisional Application to which the PCT application claims priority under the section **Domestic Priority Data**.

Please edit the **Domestic Priority Data** as follows -- This application is a 371 of PCT/US05/01245 01/14/2005 which claims priority to 60/536,361, filed January 14, 2004--.

A copy of the Official Filing Receipt identifying the provisional application data is enclosed herewith. Also enclosed is a copy of the International Application cover sheet indicating the priority to the US provisional application. Applicant additionally requests that all pertinent U.S. Patent and Trademark Office records relating to the subject application be changed to reflect this correction.

Dated: July 1, 2011

Respectfully submitted,

By: /Tayan B. Patel/  
Tayan B. Patel  
Registration No.: 58,402  
MCKENNA LONG & ALDRIDGE LLP  
1900 K Street, N.W.  
Washington, DC 20006  
(202) 496-7500  
Attorney for Applicants



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	TOT CLAIMS	IND CLAIMS
10/586,098	03/20/2007	2853	1030	S9025.0219	20	1

**CONFIRMATION NO. 1736**

32172  
DICKSTEIN SHAPIRO LLP  
1177 AVENUE OF THE AMERICAS (6TH AVENUE)  
NEW YORK, NY 10036-2714

**FILING RECEIPT**

Date Mailed: 08/10/2007

Receipt is acknowledged of this non-provisional patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. **If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Filing Receipt Corrections. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections**

**Applicant(s)**

Mikhail Laksin, Boonton, NJ;  
Subhankar Chatterjee, Hampton, NJ;  
David A. Biro, Rockaway, NJ;

**Power of Attorney:** The patent practitioners associated with Customer Number 32172

**Domestic Priority data as claimed by applicant**

This application is a 371 of PCT/US05/01245 01/14/2005

**Foreign Applications** which claims priority to 60/536,361, filed January 14, 2004

**If Required, Foreign Filing License Granted:** 08/09/2007

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is  
**US10/586,098**

**Projected Publication Date:** 11/15/2007

**Non-Publication Request:** No

**Early Publication Request:** No

**Title**

Hybrid Energy Curable Solvent-Based Liquid Printing Inks

**Preliminary Class**

## PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at <http://www.uspto.gov/web/offices/pac/doc/general/index.html>.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, <http://www.stopfakes.gov>. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4158).

### LICENSE FOR FOREIGN FILING UNDER

#### Title 35, United States Code, Section 184

#### Title 37, Code of Federal Regulations, 5.11 & 5.15

#### **GRANTED**

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to

espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Bureau of Industry and Security, Department of Commerce (15 CFR parts 730-774); the Office of Foreign AssetsControl, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

**NOT GRANTED**

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
4 August 2005 (04.08.2005)

PCT

(10) International Publication Number  
**WO 2005/071027 A1**

(51) International Patent Classification<sup>7</sup>: **C09D 11/10**

(21) International Application Number:  
PCT/US2005/001245

(22) International Filing Date: 14 January 2005 (14.01.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
60/536,361 14 January 2004 (14.01.2004) US

(71) Applicant (*for all designated States except US*): SUN  
**CHEMICAL CORPORATION** [US/US]; 222 Bridge  
Plaza South, For Lee, NJ 07024 (US).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **LAKSIN, Mikhail**  
[US/US]; 29 Kincaid Road, Boonton, NJ 07005 (US).  
**CHATTERJEE, Subhankar** [US/US]; 60 Norma Road,  
Hampton, NJ 08827 (US). **BIRO, David, Anthony**  
[CA/US]; 42 Cayuga Ave., Rockaway, NJ 07866 (US).

(74) Agent: **MEILMAN, Edward, A.**; Dickstein Shapiro  
Morin & Oshinsky LLP, 1177 Avenue of the Americas,  
41st Floor, New York, NY 10036-2714 (US).

(81) Designated States (*unless otherwise indicated, for every  
kind of national protection available*): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.

(84) Designated States (*unless otherwise indicated, for every  
kind of regional protection available*): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,  
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,  
GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

*For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.*

(54) Title: HYBRID ENERGY CURABLE SOLVENT-BASED LIQUID PRINTING INKS

(57) Abstract: The present invention provides a liquid printing ink that produces high quality flexographic or gravure printing images that have excellent solvent and abrasion resistance. In addition, the printing ink of the invention has high re-solubility, even after complete drying, upon contact with the liquid vehicle of the same ink, thereby preventing clogging of the printing plate, anilox or gravure cylinders over time. These characteristics of the printing ink are obtained by preparing a hybrid ink in which conventional organic solvent and/or water-based liquid inks are mixed with energy curable monomers and/or oligomers of resins and, optionally, a photoinitiator. After drying the ink, the printed images are exposed to an actinic radiation so that highly cross-linked polymers are formed in the printed images, which become water, chemical and abrasion-resistant.



WO 2005/071027 A1